

"Dedicated to Public Service"

# THE RADIATOR



W6RHC

IRL #8170

Echolink #322788



<http://www.gearsw6rhc.org>

P.O.Box 508 Chico, CA 95927-0508

Founded: August 13 1939

April, 2014

## Coming Events

### O.A.R.S. GENERAL MEETING

Second Friday, every month, at 7:00 p.m., at St. Paul's Church Parrish Hall, 1430 Pine St., Oroville

G.A.R.S. First Wednesday, each month, General Meeting, Lutheran Church Hall, Artois; 7:00

G.E.A.R.S General Meeting, third Friday each month, at Butte County Search and Rescue Building, Chico. Doors open at 6:30 p.m.

Butte A.R.E.S. MEET: fourth Friday, monthly, at Butte County Search and Rescue Building.

### FCC EXAMS - GEARS VEC

.First Sunday of every even numbered month.

At the Butte County Search and Rescue Building. Written test at 2:00 p.m. For information or pre-registration call Gene WA6ZRT, (530) 345-3515.

### Club Events:

News and items of interest  
GEARS Calendar...all inside.

Website: [www.gearsw6rhc.org](http://www.gearsw6rhc.org)



Picture courtesy EVARC

## The Prez' Says:



Another month has passed and winter decided to make a return visit. We have had a reasonable amount of rain in Paradise, Magalia has had snow and the locations in the Valley are hoping that we will get a bit more before summer arrives. There have been some good pyrotechnics with some of the cells that have rolled through and there have been funnel clouds out on the flatlands. All in all, March showers should bring some April flowers for the Wildflower Ride on April 27. I still have some locations where I need radio ops. Still waiting to hear from the OARS hams to see if they are going to volunteer for places close to Oroville. The ChicoVelo group has promised to have protocol handouts for us by our next meeting on April 18, 2014. And we will get shirts and other goodies plus invitations to the dinner for the volunteers after it's all over (some time in mid-summer).

I have checked with the Durham Park Department, and their liability insurance will not allow overnights so we won't be going there for Field Day. Your Board of Directors has chosen artwork for tee shirts and as soon as I can scan it in, I will send to Dorothy for her to do a special bulletin with ordering info. The pricing is very reasonable if we can get orders for more than 20 shirts. Currently the color choice is that bright blue with gold print. They have been "politically non-correct" by saying the men's shirts have a chest pocket and the ladies don't; personally. . .I want a pocket.

Hopefully, the computer problem at my house will be better by the end of the month. Our limit of one hour at the library does cramp my style a bit for answering emails. This month's column is short due to time constraints and that means both here at the terminal and getting it to Dorothy for sending. So until I send you something else. Good Hamming!

Anna Horn, kg6zoa, President

**MINUTES OF GENERAL MEETING  
for March 21 2014**

Anna Horn presented a donation to representative Dan Newman of Butte County Search and Rescue for \$600.00.

**PROGRAM:**

The presentation by the PEP Brothers parts manager was cancelled because the manager was called away on business, in its place Anna Horn gave a presentation on creating a "Service Return" Radiogram.

**ATTENDANCE:**

All officers present.

**VEC:**

None

**TREASURER:**

The Treasurer report: Expenses \$714.57; Ending Balance on Hand \$3167.05.

The report was approved.

**AUDIT COMMITTEE:** The report has been completed.

**MINUTES:** Approved the minutes from February meeting.

**OLD BUSINESS:**

**REPORTS:** The technician class training is going well.

**NEW BUSINESS:**

Artwork for Banners and shirts is waiting. Anna will contact Butte Collage

Commercial Art.

Wildflower: A meeting with the Wildflower committee will be held on the 26 of March.

August Campout is going to be held this year at Durham Park if we can get reservations, Anna will look into it. She will also look into getting reservation for our 75<sup>th</sup> anniversary stake bake and contact ORS and GARS to see if it ok with them.

ADJOURNMENT: 20:24 hr.

Dale Anderson, Secretary

**Board of Directors Meeting**

**Date of Meeting: March 21, 2014, 2014**

**ATTENDANCE:** All members present.

**OLD BUSINESS:**

Audit: Completed.

Steak Bake: 75<sup>th</sup> anniversary in September. Invite ORS and GARS to 75<sup>th</sup> anniversary celebration this year at Durham Park

Campout: Possibly this year at Durham Park.

Field Day: Possibly this year at Durham Park. To be held on 28-29 of June

**NEW BUSINESS:**

Authorize \$300.00 for a Laptop with Quicken to be used for the club treasurer.

**MEMBERSHIP APPLICATIONS:**

None.

ADJOURNMENT: 21:29 hr.

Dale Anderson, Secretary

## GEARS Contributes to Butte County Search & Rescue



Danny Newman, member of Butte County Search and Rescue, receives contribution on behalf of Search and Rescue group from President Anna Horn. The \$600. donation is an expression of the Club's appreciation for the use of the S & R building for meetings, as well as appreciation for the dedication and service provided by Search and Rescue members.



GEARS members verifying location choices and signing up for communications duty at the annual Wildflower Bi-cycle Marathon to occur April 27th.



INTERNATIONAL MARCONI DAY STATION.

# GB4MBP

28TH APRIL 2014.

MARCONI MUSEUM BASS POINT THE LIZARD CORNWALL UK.



FROM  
BASS  
POINT  
THE  
LIZARD



TO



KNOWLES  
FARM  
ISLE  
OF  
WIGHT

JANUARY 23RD 1901 FIRST OVER THE HORIZON RADIO TEST BETWEEN THE LIZARD & ISLE OF WIGHT.

BEST 73'S RICHARD G3MRT, GEOFF G0FHT, KEITH M0RSJ & MONTY G4ZKH. THE GB4MBP TEAM.

Please see full article on page 5



**VEC TESTING**  
2:00 p.m.  
April 6, 2014  
June 1, 2014  
August, 2014



Caps embroidered with your name and your call sign may be ordered by contacting WA6ZRT -Gene Telephone #530-345-3515

**AT BUTTE COUNTY  
SEARCH & RESCUE  
BUILDING**

**All Classes  
Technician, General and  
Extra.**

**Contact: WA6ZRT-  
Gene Wright  
530-345-3515**

## **Tube Of The Month**

### **2E24 & 2E26**

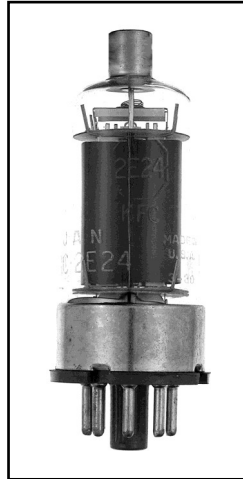
During WWII, the use of VHF and UHF equipment became common. After the war, there developed a market for transmitting tubes that would operate in VHF. Early 2-way radio equipment for commercial and police communication was AM. Many AM police departments were on 2 MHz. The use of FM for TV and communication had many benefits and there was a rush to occupy the available VHF bands. Motorola and General Electric were the main providers of police and commercial FM gear. Competition for contracts was very intense. Getting the contract to provide a radio for every police car in Los Angeles was every salesman's dream.

The need for small, octal based, VHF beam tetrodes was behind RCA's development of the 2E24 and the 2E26 in late 1945 and 1946. These were modernized versions of the 807-type tube and were much smaller. The 2E24 had a fast heating filament for mobile use and the 2E26 had a conventional 6.3-volt heater. The first transceivers were large and took up much of the trunk. With the development of 7 and 9 pin miniature tubes, the newer units were made dash mount. The 2E24 was a commonly used final and driver for the 10 watt transceivers like the Motorola 41V. The 2E26 was used in both mobile and base stations. The tubes would operate at full power at 125 MHz and at reduced power to 175 MHz. As units be-

came obsolete, hams were changing the crystals and moving them into the 2-meter band. The age of repeaters had begun.

Many new hams in the 1950s and 60s would recycle the old gear for parts. In 1959 my first transmitter used the power supply from a 174 MHz base station and the 2E26s from a mobile. A pair of push pull 2E26s with plug in coils made a full power (75 watts) novice transmitter. Makers of ham gear like Clegg and Knight-Kit also used them. In about 1952, RCA introduced a higher power version called the 6146. For some time these tubes were the final of choice for many ham transmitters.

Visit the museum at [N6JV.com](http://N6JV.com)  
Norm N6JV





Greetings, Here is an item courtesy of the Cornish Amateur Radio Club about an annual event which may be of interest to your readers.

John Stettler, KI6DP, Section PIC

### What is International Marconi Day?

International Marconi Day (IMD) is a 24-hour amateur radio event held annually to celebrate the birth of Guglielmo Marconi on the 25th April 1874. The IMD event is not a contest: it is an opportunity for amateurs around the world to make point-to-point contact with historic Marconi sites using HF communications techniques similar to those used by Marconi, and to gain an attractive Award for achieving the requisite number of Marconi stations worked. It will be held 26th April 2014 from 0000 to 2359 UTC on the day. IMD is held on a Saturday close to Marconi's birthday, when amateur radio stations are established, around the world, operating from locations celebrating the original historic sites. These stations are known as the 'Award Stations' and are listed on this Web Site. The list is regularly updated close to the event as the various stations confirm their availability to operate.

Communications techniques have changed significantly since the days of Marconi's first experiments, and today, the Internet has become the most widely used of all communications media. However, the spirit of IMD remains basically that of making point-to-point contact between two stations using only the HF bands. The organizing Committee of IMD has therefore decided that the use of the Internet to communicate between stations eg using the Internet Relay Linking Project (IRLP) or Echolink will not count towards the Award.

See <http://g4usb.net/IMD/imd-2014/> for more information.

73, John, KI6DP, Section PIC



## YUBA SUTTER Amateur Radio Club



Proudly Presents Its  
Annual ARRL Sanctioned Hamfest



### Saturday June 7<sup>th</sup>, 2014

0700 – Noon – Peach Tree Mall (Feather River Center)  
6000 Lindhurst Avenue, Marysville (Linda), CA 95901



\*Free Admission

\*Lots of Food Nearby

\*Vendor Fee - \$10 (Set-up @06:00)

\*Free Parking

\*Handicap Accessible

\*Door Prizes (Starting at 08:00)

#### DIRECTIONS

##### Northbound Hwy 70...

Take the Feather River Blvd exit  
Turn right, right again @ the light.  
Mall will be on your right.

##### Southbound Hwy 70...

Take the N Beale Road exit  
Keep to right thru lights,  
Mall will be on your right.

##### From the West or East...

Travel to Marysville, head south on  
Hwy 70; follow Southbound Directions

##### Northbound from Roseville...

Travel north on Hwy 65 Past Wheatland;  
follow Northbound directions

##### Northbound from Sacramento

Traveling northbound on Hwy 99, take  
Hwy 70 at the 70/99 interchange, then  
follow the Northbound directions



TALK IN DIRECTIONS - 146.085+ (127.3)



The above photo is from a current Black Bear Diner Menu, ( Paradise Location). Coincidentally, Anna-KG6ZOA noticed the article which is reprinted from a 1965 newspaper publication, as she was enjoying a luncheon meeting regarding Ham Radio issues! Thanks Anna for sharing.

Below are the Wildflower Locations for 2014, showing those already assigned. Please select a your choice of a vacant location and notify Anna-kg6zoa at 530 -877-5939, as early as possible.

	A	B	C	D	E
1	as of April 1, 2014 Wildflower				
2	<u>LOCATION</u>	<u>HAM</u>	<u>TIME ON</u>	<u>REPEATER</u>	<u>T-Shirts</u>
3	9 <sup>th</sup> AND Cypress	Jim & Evelyn Weir	8:00 a.m.	GEARS	Med/Med
4	Bruce & Humboldt		8:00 a.m.	GEARS	
5	Humboldt & 32	Klaus Keil	5:50 a.m.	GEARS	XL
6	20 <sup>th</sup> & Bike Path		8:00 a.m.	GEARS	
7	Rest Stop & Honey Run		8:15 a.m.	GEARS	
8	Honey Run & Skyway	Arnott Smith	8:45 a.m.	GEARS	XL
9	Lower Coutelenc	Scott Petersen	8:15 a.m.	GEARS	XXL
10	Upper Coutelenc	Dale Anderson	8:20 a.m.	GEARS	XL
11	Rest Stop @ Stirling City	Lester Mikeworth	8:35 a.m.	GEARS/105	L
12	Rest Stop @ Stirling City	Bessie Mikeworth	8:50 a.m.	GEARS/105	XL
13	Skyway & Pearson Road		7:00 a.m.	GEARS/105	
14	Pearson Road Rest Stop	Casey Lawler	7:15 a.m.	GEARS/105	2X
15	Pearson Road Rest Stop	?Kent Jorgenson	7:45 a.m.	GEARS/105	XL
16	Spring Valley School Rest Stop	James Bennett	7:45 a.m.	GEARS/105	XL
17	Spring Valley School Rest Stop	Jeff Meyers	7:45 a.m.	GEARS	XL
18	Durham-Pentz & Wheelock Road	Anna Horn	7:45 a.m.	GEARS/105	XXXL
19	Durham-Pentz & Wheelock Road		7:45 a.m.	GEARS/105	
20	Coal Canyon & Wheelock Road		8:00 to 12	GEARS/105	
21	Forbay Rest Stop	John Hursey	9:30 A.M.	GEARS /105	XXL
22	Table Mountain Blvd	Steve McDermott	8:00 a.m.	GEARS/105	XXL
23	Cherokee Road	Dick Wolstenholm	8:20 a.m.	GEARS/105	XL
24	Durham-Pentz Rest Stop	Steve Wolske	8:20: AM	GEARS/105	XXL
25	Durham-Pentz Rest Stop	Marge Wolske	8:20 a.m.	GEARS/105	XL
26	Ord Ferry – River Road	Suzanne Jessen	8:30 a.m.	GEARS/105	L
27	Ord Ferry – River Road	David Jessen	8:30 a.m.	GEARS/105	L
28	Richdale Rest stop		9:00 a.m.	GEARS	
29	5 <sup>th</sup> St & Pine		8:30 a.m.	GEARS	
30	Remote Relay		9:30 a.m.	GEARS	
31	Sag Wagon		7:00 a.m.	GEARS	
32	Sag Wagon	?John Post	10:00 a.m.	GEARS	XL
33	Sag Wagon		8:00 a.m.	GEARS	
34	Sag Wagon		All Day	GEARS/105	
35	net control	Sheriff's com unit	All Day		
36	NOTE THE LOCATIONS WHICH				
37	NEED VOLUNTEERS-INTERESTED				
38	PLEASE CALL ANNA HORN 877 5939				
39					

**The GEARS Newsletter Staff:****Editor and Publisher**.....Dorothy Post**Printing & Distribution** snail mail: Evelyn Weir**Website**...Stephen McDermott W6AKF

The Radiator is a monthly publication of the Golden Empire Amateur Radio Society (GEARS). It is the policy of the Editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio, of interest to GEARS members, and space is available. Please send all submissions to the Editor – Dorothy Post by the last day of the month through the following medium: E-mail: dj@posthouse.us

**Club Officers: (Board of Directors)****President** .....Anna Horn –KG6ZOA**Vice President**..... Scott Petersen-KE6VUS**Secretary** .....Dale Anderson-KK6EVX**Treasurer**.....Lester Mikeworth KG6KUO**Past President** .....Gene Wright-WA6ZRT**Director**..... Tom Rider-W6JS**Director**.....Stephen McDermott W6AKF**Director**.....Stephen Wolske-KF6HSS**Club Meetings****General Meeting** Third Friday 6:30 PM**Board Meeting** Third Friday 9:00 PM**GEARS Club Net****Tuesdays** 8:00 PM 146.850 MHz-PL 110.9

**GARS Club Net:** Monday, 19:30 147.105+Mhz PL 110.0

**Sacramento Valley Traffic Net****Nightly** 9:00 PM 146.850 MHz-PL 110.9**ARES Nets:****Butte** Mondays 20:00 146.850 MHz-PL 110.9**Yuba Sutter** Thursdays 19:00 146.085+MHz PL 127.3**Glenn** Thursday 19:30 147.105 MHz +PL 100.0**Other Nets:**

**Sac Valley Section Net**—7:00 PM 2<sup>nd</sup> Wed of the month 146.085 MHz+PL 127.3

**440 Wed. Night** 8:00 PM Wednesday 440.650 MHz**Golden Bear** 7:00 PM Daily 3975 kHz**Willie Net** 8:00 PM Mondays 1930 kHz**Western Public Service System (WPSS)****Winter** 5:00 – 7:30 PM 3952 kHz**Summer** 6:00 – 8:30 PM 3952 kHz

**ARISS (International Space Station) Uplink** 144.490 MHz **Downlink** 145.800 MHz

**Hope-1 satellite:** all uplinks are in 145Mhz band:

All downlinks are in 435Mhz band

...California Traffic Net: 3906 KHz nightly @6:00 pm

For traffic listing &amp; @6:30 p.m. for roll call.

## Washington Aeronautic Safety Law Exempts Amateur Radio “Guyed Towers”

04/02/2014

Washington Gov Jay Inslee has signed into law legislation aimed at providing a safer “flying environment” for pilots of aircraft engaged in “low-flying activities,” such as crop dusting and search-and-rescue. The new law includes provisions to alert pilots to “guyed towers that may be erected at short notice” that might be hard to see and pose an air safety hazard, and it contains specific marking and lighting requirements. Specifically exempted from the new law is “Any structure for which the primary purpose is to support telecommunications equipment, such as equipment for Amateur Radio and broadcast radio and television services regulated by the Federal Communications Commission.”

ARRL Field Organization volunteers in Washington worked with lawmakers to have the exemption included. Also exempted are self-supporting utility poles and towers, and guyed towers that are used for military purposes, within 50 feet of a structure or vegetation of equal or greater height, or attached to a “large mobile motorized machine” such as one used to yard timber.

Impetus for the legislation — similar to legislation being considered or enacted in other Western states — was a 2013 National Transportation Safety Board recommendation that states and territories “Enact legislation requiring that meteorological evaluation towers erected in your state or territory are marked and registered in a directory.” The recommendation came in the wake of fatal aircraft collisions with meteorological evaluation towers (METs), which often are erected on short notice and lack markings or lighting to make them more visible to pilots.

(The above from ARRL April, 2014 newsletter)



<b>Sunday, April 6, 2014 June 1, 2014</b>	<b>2:00 p.m.</b>	<b>VEC—Exams</b>	<b>Butte Co. Search &amp; Rescue Building 2591 Morrow Lane, Chico</b>	<b>Gene Wright Wa6zrt 530 345 3515</b>
<b>Wednesday April 2, 2014 May 7, 2014</b>	<b>7:00 p.m.</b>	<b>GARS-Glenn Glenn Amateur Radio Society General Meeting, &amp; Amateur Radio Emergency Services</b>	<b>Lutheran Church Hall: 565 Main Street Artois</b>	<b>Joel Wilson kj6dif 530 824 6005</b>
<b>Friday, April 11, 2014 May 9, 2014</b>	<b>7:00 p.m.</b>	<b>OARS Oroville Amateur Radio Society General Meeting</b>	<b>St Paul's Church Parrish Hall 1430 Pine Street Oroville</b>	<b>John Hunt 530 589 4734</b>
<b>Friday April 18, 2014 May 16, 2014</b>	<b>7:00 p.m.</b>	<b>GEARS Golden Empire Amateur Radio Society General Meeting/Elections</b>	<b>Butte County Search and Rescue Building 2591 Morrow Lane Chico</b>	<b>Anna Horn -kg6zoa 530-877-5939</b>

# WILDFLOWER

*Sunday, April 27, 2014*

*Have you signed up for your location????*

*Please check the Assigned locations list on Page 7.*